

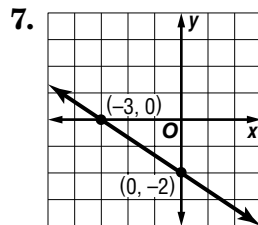
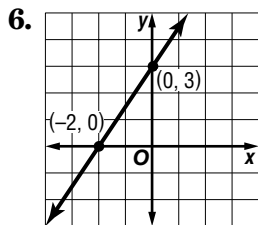
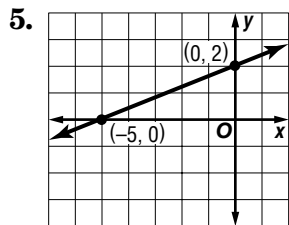
# 5-3 Practice

## Slope-Intercept Form

Write an equation of the line with the given slope and y-intercept.

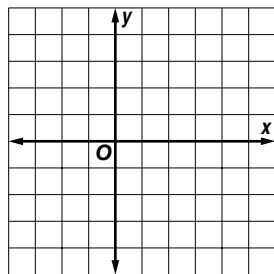
- slope:  $\frac{1}{4}$ , y-intercept: 3
- slope:  $\frac{3}{2}$ , y-intercept: -4
- slope: 1.5, y-intercept: -1
- slope: -2.5, y-intercept: 3.5

Write an equation of the line shown in each graph.

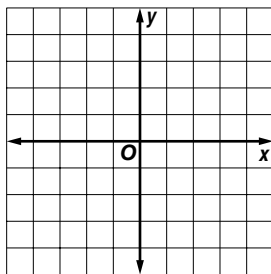


Graph each equation.

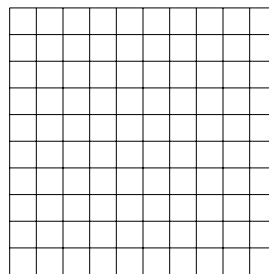
8.  $y = -\frac{1}{2}x + 2$



9.  $3y = 2x - 6$



10.  $6x + 3y = 6$



Write a linear equation in slope-intercept form to model each situation.

- A computer technician charges \$75 for a consultation plus \$35 per hour.
- The population of Pine Bluff is 6791 and is decreasing at the rate of 7 per year.

**WRITING** For Exercises 13–15, use the following information.

Carla has already written 10 pages of a novel. She plans to write 15 additional pages per month until she is finished.

- Write an equation to find the total number of pages  $P$  written after any number of months  $m$ .
- Graph the equation on the grid at the right.
- Find the total number of pages written after 5 months.

